LEUPOLD®

RX™ Series Rangefinders

OPERATING INSTRUCTIONS

Introduction

Congratulations! You have purchased a Leupold® RX™ Series digital laser rangefinder that has been designed by Leupold's engineers and designers to be the best rangefinder on the market and to provide you with years of solid performance in the field. Following are detailed instructions regarding the proper use and employment of your RX Series rangefinder. To ensure top performance for the life of the product, please read these instructions before operating your RX-I, RX-II, RX-III, or RX-IV.

Your new Leupold RX Series digital laser rangefinder is a revolutionary, range-finding device that incorporates advanced digital electronics with state-of-the-art ballistics algorithms. RX features include an inclinometer, thermometer, compass, and the Match 13™ Reticle System™, but the truly innovative and unique feature is True Ballistic Range (TBR™), which is available on RX-II, RX-III, RX-IV, RX-IV Boone and Crockett™, and RXB-IV™ models. True Ballistic Range™ algorithms were developed by the same engineers who developed Sierra Infinity® Exterior Ballistics Software and who helped develop navigation and guidance systems for ICBMs and other missiles with far more demanding trajectory requirements than a hunting bullet.

True Ballistic Range (TBR) is a marriage of laser ranging, inclinometer, and an advanced computerized ballistics program. The result is distance measuring precise within a yard, no matter the angle at which the laser is fired. Bullets and arrows travel in a ballistic arc, yet conventional rangefinders only provide a linear distance to your target. True Ballistic Range delivers the ballistic equivalent range to the target, accounting for the effects of inclines (either up or down) on the path of your bullet or arrow. Other features that are provided for firearms are outputs that display either MOA adjustments, or inches/centimeters of holdover at that specific distance. True Ballistic Range eliminates any potentially significant error, and provides a precise range for your aiming calculations. TBR is matched to each of seven firearm ballistics groups and three archery ballistics groups, allowing use with most popular firearms and bows. RX-IV Boone and Crockett edition rangefinders add the ability to accurately judge the width and height of a target using Trophy Scale™ as well as showing the exact aim point to be used with your Boone and Crockett™ reticle.

The ranging accuracy of all Leupold RX Series rangefinders is +/- one yard/meter. The maximum range of the unit depends on the reflectivity of the target (as do all rangefinders). Following is a reference table listing the ranges of the various models under different conditions:

	MAXIMUM RANGE				
CONDITION	**RX-I**	**RX-II**	**RX-III**	**RX-IV**	**RX-IV Boone and Crockett™ Edition**
Reflective Target (yd/m)	750/686	750/686	1,200/1,097	1,500/1,372	1,500/1,372
Trees (yd/m)	600/549	600/549	700/640	800/732	800/732
Deer (yd/m)	500/457	500/457	600/549	700/640	700/640

Surface texture, color, size, and shape of the target all affect reflectivity, which in turn affects the maximum range of the instrument. As a rule of thumb, brightly colored targets are much more reflective than darker targets. Tan game coats are more reflective (and thus provide a more solid reading) than a black roof. A shiny surface is more reflective than a dull surface. Smaller targets are more difficult to range than larger targets. Light conditions, haze, fog, rain, and other environmental conditions can all affect ranging performance. Any factor which degrades air clarity will reduce the maximum effective range.

Specifications

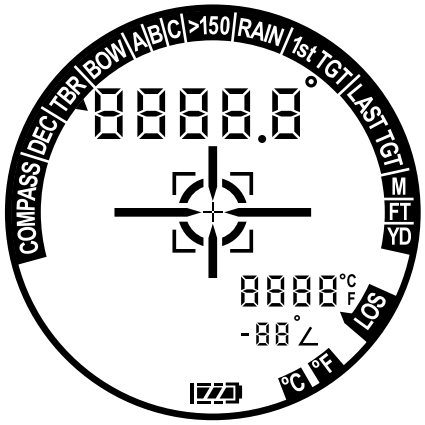
The RX Series of digital laser rangefinders provides a variety of useful modes to tailor performance to the conditions you experience in the field. Model features are identified on the following pages.

	RX-I	RX-II	RX-III	RX-IV	RX-IV Boone and Crockett Edition
Magnification	6×	6×	8×	8×	8×
Inclinometer	No	Yes	Yes	Yes	Yes
TBR (True Ballistic Range)	No	Yes	Yes	Yes	Yes
Match 13™ Reticle System™	Yes	Yes	Yes	Yes	No*
Quick Set Rotary Menu™	Yes	Yes	Yes	Yes	Yes
Long Range Mode	Yes	Yes	Yes	Yes	Yes
Rain Mode	No	Yes	Yes	Yes	Yes
1st Target Mode	No	Yes	Yes	Yes	Yes
Last Target Mode	No	Yes	Yes	Yes	Yes
Line of Sight Distance (LOS)	Yes	Yes	Yes	Yes	Yes
Compass With Tilt Compensation	No	No	No	Yes	No
Thermometer °C to °F	Yes	Yes	Yes	Yes	No
Yards/Feet/Meters Mode	Yes	Yes	Yes	Yes	Yes
Scan Mode	Yes	Yes	Yes	Yes	Yes
Illuminated Display	No	No	Yes	Yes	Yes
Clear Field™ Display Cleanup Mode	Yes	Yes	Yes	Yes	Yes
Battery Life	2000 Actuations	2000 Actuations	2000 Actuations	2000 Actuations	2000 Actuations
Weight	6.8 oz/193 g	6.8 oz/193 g	12 oz/340 g	12 oz/340 g	12 oz/340 g
Dimension (Inches)	4" × 2.75" × 1.5"	4" × 2.75" × 1.5"	4.7" × 3.5" × 2"	4.7" × 3.5" × 2"	4.7" × 3.5" × 2"
Dimension (Centimeters)	10 × 7 × 3.8	10 × 7 × 3.8	12 × 8.8 × 5	12 × 8.8 × 5	12 × 8.8 × 5
Low Battery Indicator	Yes	Yes	Yes	Yes	Yes
Warranty	1 Year	1 Year	2 Years	2 Years	2 Years
Weatherproof/Waterproof	Weatherproof	Weatherproof	Waterproof	Waterproof	Waterproof

* RX-IV Boone and Crockett Edition comes with Boone and Crockett™, Crosshair, and Plus Point™.

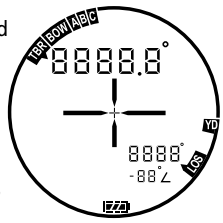
Operation

QUICK SET ROTARY MENU™



*Display shown with all possible modes visible

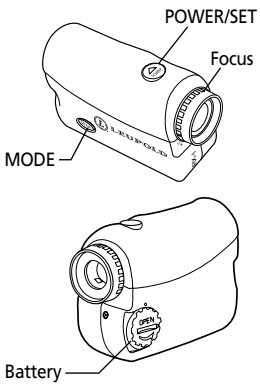
QUICK START MODE



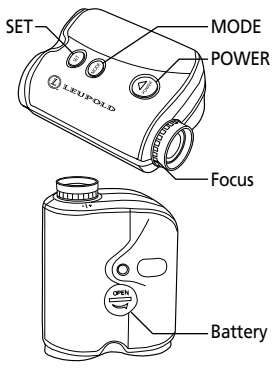
Leupold RX Series rangefinders are shipped in the Quick Start Mode, limiting the available options to those most commonly used. With the exception of RX-I models, each of the three TBR™ rifle settings is available (page 4), as well as each ballistics group (bow – page 5, rifle – pages 5-6). All returns will be measured in yards and the reticle options are limited to Duplex®, Plus Point™, and Brackett Square with Plus Point offerings. To access all other modes and additional reticle offerings, the Advanced Mode must be activated.

To activate Advanced Mode, press and hold all buttons for 10 seconds; you will see a numeric count-down displayed. Once the display has reached "0", every icon will be displayed, indicating Advanced Mode has been activated. To return to Quick Start Mode, simply press and hold all buttons again for 10 seconds; you will see the same numeric count-down displayed. Once the display has reached "0", only those icons available in Quick Start Mode will be displayed, indicating Quick Start Mode has been activated.

RX™-I AND RX™-II



RX™-III, RX™-IV AND RX™-IV BOONE AND CROCKETT™



The RX-I and RX-II have two buttons: Power/Set and Mode. The RX-III, RX-IV, and RX-IV Boone and Crockett™ have three buttons: POWER, MODE, and SET. To toggle between Quick Start Mode and Advanced Mode, press and hold all buttons for 10 seconds.

When you initially push the POWER button, the unit is ready for scanning. When you first press and hold the MODE button for 1 second, the Quick Set Rotary Menu™ is prepared for navigation in the Quick Start Mode. To access Advanced Mode, all buttons must be held simultaneously for 10 seconds. To set or activate a mode, you must advance to that function by pressing the MODE button until that function is flashing. To activate a mode, press the SET button, the icon will display steadily and the word "ON" will appear in the bottom right portion of the display. If this is the last mode to be set, allowing the rangefinder to sit idle for 20 seconds will cause an automatic power-off, saving all selections. If additional modes require activation/deactivation, simply press MODE to continue around the Quick Set Rotary Menu. Pressing and holding MODE for 1 second at any time will exit the Quick Set Rotary Menu, save all previous changes, and prepare the rangefinder for immediate use.

NOTE: *Activating certain modes automatically disables other modes. For example, 1st Target and Last Target Mode work to achieve opposite goals; activating one will automatically deactivate the other. Long Range and Rain Mode can be on at the same time.*

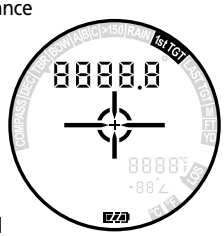
FUNCTION 1: LONG RANGE MODE

This mode is used when you want the rangefinder to range only those items beyond 150 yards (137 meters). If you are ranging targets closer than 150 yards (137 meters), turn the Long Range Mode off. This mode automatically limits returns to targets of distances greater than 150 yards (137 meters). When ranging targets closer than 150 yards (137 meters), this mode will need to be deactivated before a return will be displayed.

FUNCTION 2: RAIN MODE

The Rain Mode is used in rainy/foggy conditions and screens out false returns from raindrops or other atmospheric interference to provide an accurate range.

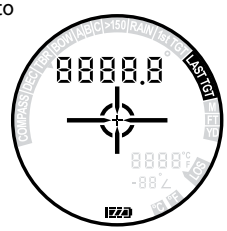
FUNCTION 3: 1ST TARGET MODE



1st Target Mode is used to display the distance to the closest object when more than one object may be hit by the beam. Multiple objects will often return an average distance. 1st Target Mode ensures an accurate reading on the closest object.

Last Target Mode is automatically disabled while 1st Target Mode is activated.

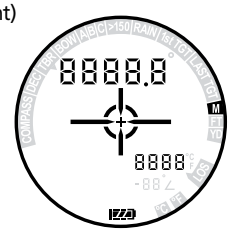
FUNCTION 4: LAST TARGET MODE



This mode is used to display the distance to the farthest object when more than one object may be read. Multiple objects will often return an average distance. Last Target Mode ensures an accurate reading on the farthest object.

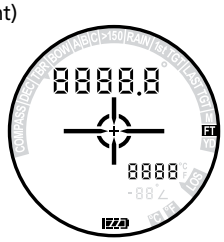
1st Target Mode is automatically disabled while Last Target Mode is activated.

FUNCTION 5: METER OUTPUT



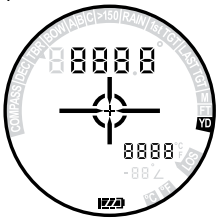
This mode displays both LOS (Line of Sight) and TBR ranges in meters, and will disable readings in yards or feet. TBR is displayed with one decimal place resolution in large numbers just above the reticle, LOS is displayed in small numbers above the angle readout (just below and to the right of the reticle).

FUNCTION 6: FEET OUTPUT



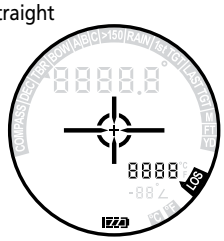
This mode displays both LOS (Line of Sight) and TBR ranges in feet, and will disable readings in yards or meters. TBR is displayed with one decimal place resolution in large numbers just above the reticle, LOS is displayed in small numbers above the angle readout (just below and to the right of the reticle).

FUNCTION 7: YARDS OUTPUT



This mode displays both LOS (Line of Sight) and TBR ranges in yards, and will disable readings in meters or feet. TBR is displayed (no decimal place resolution) in large numbers just above the reticle, LOS is displayed in small numbers above the angle readout (just below and to the right of the reticle).

FUNCTION 8: LINE OF SIGHT OUTPUT



This mode, when activated, provides the straight line distance to the target. The output is displayed in smaller numbers just below and to the right of the reticle.

NOTE: *On the RX-I model, LOS is displayed in large numbers above the reticle (in the TBR position).*

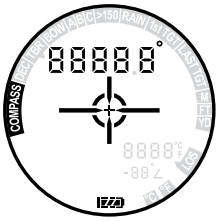
FUNCTION 9: FAHRENHEIT OUTPUT

When activated, this mode displays the air temperature in Fahrenheit. If Fahrenheit is activated, the Celsius Mode and LOS (Line of Sight) range will be disabled. The output is displayed in smaller numbers just below and to the right of the reticle. (Not available on RX-IV Boone and Crockett™.)

FUNCTION 10: CELSIUS OUTPUT

When activated, this mode displays the air temperature in Celsius. If Celsius is activated, the Fahrenheit Mode and LOS (Line of Sight) range will be disabled. The output is displayed in smaller numbers just below and to the right of the reticle. (Not available on RX-IV Boone and Crockett.)

FUNCTION 11: DIGITAL COMPASS MODE (RX-IV ONLY)



When activated, the compass heading will be displayed in larger numbers above the reticle. If the Digital Compass Mode is activated, the True Ballistic Range (TBR) will be disabled. The compass will perform accurately even if tilted for viewing targets uphill or downhill, at angles as severe as 30°. Tilt compensation is accomplished via a sophisticated computer-processed algorithm that incorporates both the compass and inclinometer readings.

NOTE: *Calibration of the compass must be performed when the rangefinder is initially used and anytime it is moved to a new region — see Function 17 for calibration procedure.*

FUNCTION 12: DECLINATION ANGLE INPUT (RX-IV ONLY)

This mode allows the user to manually set the declination angle, correcting for deviation between magnetic North and true North. Declination angle for your area can be found on the corner of any USGS topography map or on several Internet sites (for example, go to: www.ngdc.noaa.gov/seg/geomag/jsp/Declination.jsp).

To set the declination, scroll through the Quick Set Rotary Menu until "DEC" is flashing, then press SET. The angle will begin at 0° and increase each time the SET button is depressed. You can hold down the SET button and it will progress up at a slow rate. For negative numbers, progress all of the way up to +30°. The next press of SET will start the numbers at -30° and continue to progress in a positive direction. Stop at the correct angle. Press MODE to move to the next mode in the Quick Set Rotary Menu, or wait for the power to "time out" to save the declination angle setting.

NOTE: *Pressing SET continues to run through these settings until you press MODE to move on.*

NOTE: *Magnetic fields are constantly shifting on the Earth so declination angle may need to be reset every couple of years for maximum accuracy.*

FUNCTION 13: TRUE BALLISTIC RANGE

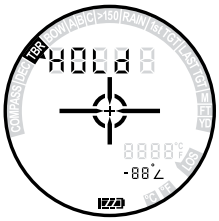
TBR calculates the equivalent horizontal range (level fire range) from which you can determine the correct aim for the conditions. For example, if you are shooting a .270 caliber, 130 grain (8.4 gram) bullet at 3,050 feet per second (930 meters per second) up a 30° incline at 400 yards (366 meters), direct line of sight, the TBR output will be 364 yards (333 meters). State-of-the-art processing algorithms, developed by the same engineers who developed Sierra Infinity© Exterior Ballistics Software and who developed ballistics algorithms for many space vehicles over the last 40 years, determine the True Ballistic Range with incredible accuracy, eliminating potential errors that could cause you to miscalculate your aiming point. The first step in correctly using TBR is to Practice, Practice, Practice. Anytime you handle a firearm or bow, you are ultimately responsible for your projectile.

The inclinometer output is shown below the LOS output or thermometer, whichever is enabled. The inclinometer output will be disabled when TBR is turned off.

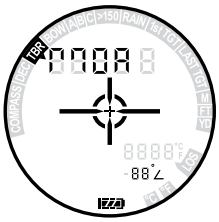
For rifle users, adjustment or holdover information can also be displayed. The available settings are as follows: MOA displays the minute of angle correction, HOLD displays the inches or centimeters to holdover the intended point of impact, and BAS outputs the equivalent range to use with Leupold's Ballistics Aiming System™ reticles or the equivalent horizontal range. RX-IV Boone and Crockett™ edition users can also choose to have the appropriate aim point for the Boone and Crockett reticle flash, showing exactly which portion of the reticle to use. TBR for rifle settings is effective to 800 yards (732 meters) for most cartridges.

For rifle users, TBR mode is comprised of three functions: HOLD, MOA, and BAS. One of these modes must be selected. To select the desired function, scroll through the Quick Set Rotary Menu until TBR is reached (activate if necessary). While the TBR icon is highlighted, pressing MODE repeatedly will scroll through HOLD, MOA, and BAS respectively; press SET when the desired function is displayed. This will be displayed in the section above the reticle.

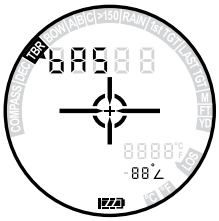
For information regarding BOW settings, please see page 5.



HOLD will display your holdover for that target at that distance, which is based upon the ballistics group and sight-in distance you will choose in a later mode. The upper digits display holdover measured in inches if feet or yards is the chosen measurement output. Centimeters of holdover will be displayed if meters is the chosen measurement output. Your hold will be shown as "HI 999" or "LO 999".



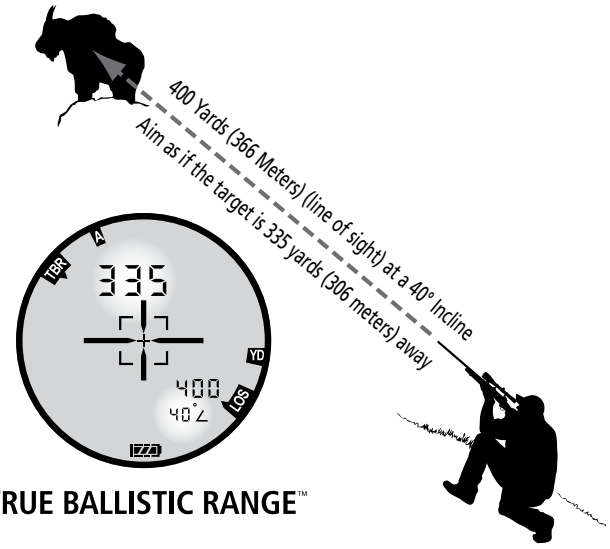
MOA Mode will show the minute of angle adjustment for your target, accounting for the True Ballistic Range. The upper display will show MOA adjustment as "UP 999" and "dn 999".



BAS displays the equivalent horizontal range. This is the range you will want to use when shooting, rather than the line of sight distance, which may contain gross errors depending upon the shot angle. Returns will be displayed with equivalent horizontal range.

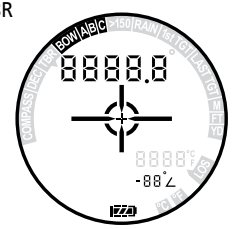
NOTE: *True Ballistic Range is available only in the RX-II, RX-III, RX-IV, and RX-IV Boone and Crockett models.*

TBR™ (TRUE BALLISTIC RANGE™): RIFLE



TRUE BALLISTIC RANGE™

FUNCTION 14: BOW BALLISTICS GROUP



This mode, when activated, works with TBR to provide the correct ballistics range for arrows. To activate, move through the Quick Set Rotary Menu by pressing MODE and select BOW by pressing SET. Selecting the BOW Mode automatically deactivates the Rifle Mode. The displayed range represents the ballistically equivalent horizontal distance to the target. It incorporates three different groups (A, B, or C) depending on the particular arrow drop. You must choose one of the three groups, based on your bow and arrow selection. Only one group can be selected at a time. Selecting a new group deactivates all other groups. Most importantly, using BOW effectively means to Practice, Practice, Practice. Anytime you handle a firearm or bow, you are ultimately responsible for your projectile.

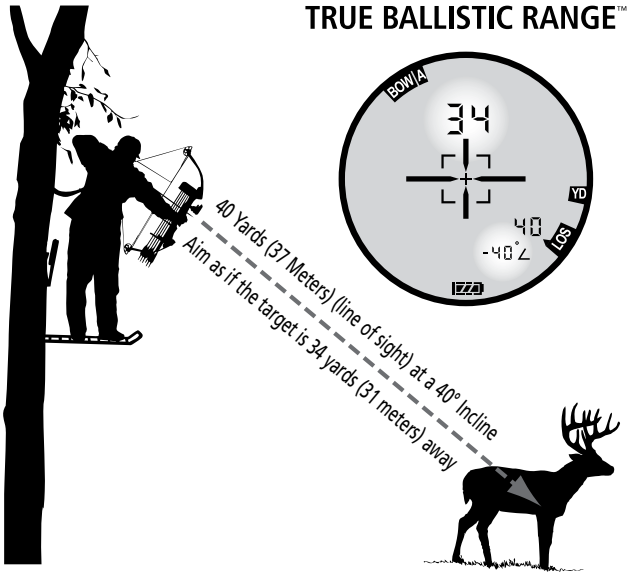
BOW GROUP DATA			
Bow Group	Initial Arrow Velocity (feet/meter per second)	Drop from 20 yard (18 meter) pin at 40 yards (37 meters)	Typical Bow Description
A	Less than 215 ft/ Less than 66 m	30 or more inches/ 76 or more cm	Older bows shooting aluminum arrows and newer bows set at draw weights below 50 lb (23 kg)
B	215 to 250 ft/ 66 to 76 m	20 to 30 inches/ 51 to 76 cm	Quality, newer bows shooting carbon arrows at 50-65 lb (23-29 kg) draw weight
C	250 or more ft/ 76 m or more	Less than 20 inches/ Less then 51 cm	Fast bows with draw weights in excess of 65 lb (29 kg)

For best results, measure the drop of your arrow at 40 yards (37 meters) when using your 20 yard (18 meter) aiming point.

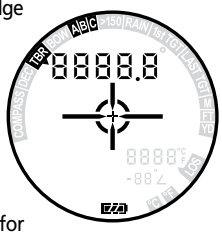
1. Set up a small target point such as a two-inch circle of paper high on a large, safe background, such as a stack of bales backed by a solid backstop. Be sure to allow for three feet or more of drop to avoid arrow damage.
2. Shoot 2 or 3 arrows at the target from 40 yards (37 meters), using your 20 yard (18 meter) pin on the small target.
3. Measure the distance from the small target to the center of the group of arrows.
4. Select your TBR bow group from the "Drop from 20 yard (18 meter) pin at 40 yards (37 meters)" column above.

Initial velocity should only be used if an arrow speed chronograph measurement has been obtained. Manufacturer's published data such as IBO speed is based on standard draw length and weight that is likely to vary with your bow, therefore the actual performance may not be the same.

TBR™ (TRUE BALLISTIC RANGE™): ARCHERY



FUNCTION 15: SEVEN RIFLE BALLISTICS GROUPS



TBR includes ballistics settings for seven cartridge groups specifically formulated for the three functions of TBR, which are displayed as A, B, C, AB, AC, BC, and ABC. For example, if your cartridge group is in Group A, the return in Function 15 will account for the shot angle and provide the proper distance for holdover purposes (see Cartridge Table chart on page 6). You must choose one of the seven groups, based on your cartridge and ballistics information. TBR performance groups organize load performance in a way that generally provides less than 2.5 inches (6.35 cm) (1/2 minute of angle) of error in aiming out to 500 yards (457 meters). The cartridge table shows a common assortment of factory loads organized in their TBR performance groups. If you are shooting a similar bullet weight and muzzle velocity that falls into the provided selections, you can use that mode with full confidence.

TBR PERFORMANCE GROUPS: CARTRIDGE TABLE						
TBR Group	Sight-In Distance	Cartridge Name	Bullet Weight (grains)	Bullet Weight (grams)	Muzzle Velocity (feet per second)	Muzzle Velocity (meters per second)
A	300 Yards/ 274 Meters	.270 Weatherby Magnum	100	6.5	3760	1146
		Lazzeroni 7.21 Firebird	140	9.1	3640	1109
		.30-.378 Weatherby	165	10.7	3500	1067
		.30-.378 Weatherby	180	11.7	3450	1052
		.300 Weatherby Magnum	150	9.7	3450	1059
B	300 Yards/ 274 Meters	.240 Weatherby	87	5.6	3520	1073
		.240 Weatherby	100	6.5	3400	1036
		.270 Weatherby Magnum	130	8.4	3200	975
		.270 Weatherby Magnum	150	9.7	3245	989
		.270 Winchester Short Magnum	130	8.4	3250	991
		7mm Shooting Times Westerner	140	9.1	3330	1015
		7mm Shooting Times Westerner	160	10.4	3050	930
		7mm Weatherby Magnum	139	9.0	3340	1018
		7mm Weatherby Magnum	175	11.3	3070	936
		7mm Winchester Short Magnum	140	9.1	3310	1009
		.300 Remington Ultra Magnum	180	11.7	3250	991
		.300 Remington Ultra Magnum	200	13.0	3025	922
		.300 Weatherby Magnum	180	11.7	3250	991
		.300 Winchester Magnum	150	9.7	3280	1000
		.300 Winchester Magnum	180	11.7	2960	902
		.300 Winchester Short Magnum	150	9.7	3300	1006
		.300 Winchester Short Magnum	180	11.7	3025	922
		.338 Remington Ultra Magnum	180	11.7	3030	924
C	200 Yards/ 183 Meters	.204 Ruger	32	2.1	4225	1288
		.204 Ruger	40	2.6	3090	942
		.22-250 Remington	55	3.6	3650	1113
		.223 Remington	40	2.6	3700	1128
		.223 Winchester Super Short Magnum	55	3.6	3850	1173
		.223 Winchester Super Short Magnum	64	4.1	3600	1097
		.243 Winchester Super Short Magnum	55	3.6	4060	1237
		.243 Winchester Super Short Magnum	100	6.5	3110	948
		.25 Winchester Super Short Magnum	85	5.5	3470	1058
		.25-06 Remington	115	7.5	2990	911
		.25-06 Remington	120	7.8	2990	911
		.260 Remington	120	7.8	2890	881
		.270 Winchester	130	8.4	2910	887
		.270 Winchester	150	9.7	2850	869
		.270 Winchester Short Magnum	150	9.7	3275	998
		7mm Winchester Short Magnum	160	10.4	2990	911
		.280 Remington	140	9.1	2990	911
		.280 Remington	150	9.7	2890	881
AB	200 Yards/ 183 Meters	.243 Winchester	100	6.5	2950	899
		.243 Winchester	100	6.5	2960	902
		7mm-08	120	7.8	3000	914
		7mm-08	140	9.1	2800	853
		.338 Remington Ultra Magnum	250	16.2	2660	811
		.338 Winchester Magnum	210	13.6	2829	862
AC	200 Yards/ 183 Meters	.25 Winchester Super Short Magnum	120	7.8	2990	911
		.260 Remington	115	7.5	2750	838
		6.5x55mm Swedish	140	9.1	2630	802
		7mm Remington Magnum	175	11.3	3150	960
		.280 Remington	160	10.4	2940	896
		.300 H&H Magnum	180	11.7	2880	878
		.300 Weatherby Magnum	200	13.0	2700	823
		.30-06 Springfield	125	8.1	3140	957
		.30-06 Springfield	180	11.7	2700	823
		.308 Winchester	150	9.7	2820	860
		.308 Winchester	168	10.9	2670	814
		.338 Winchester Magnum	210	13.6	2830	863
		.338 Winchester Magnum	250	16.2	2650	808
		.378 Weatherby Magnum	300	19.4	2800	853
		.460 Weatherby Magnum	450	29.2	2700	823
BC	200 Yards/ 183 Meters	.378 Weatherby Magnum	300	19.4	2925	892
ABC	200 Yards/ 183 Meters	.223 Remington	64	4.1	3020	920
		.378 Weatherby Magnum	300	19.4	2920	890

For hand loads or any other unique loads not shown in the above list, the table in the next column provides a guideline for selecting the appropriate TBR performance group. Check the ballistic performance of your bullet by consulting your reloading manual, ballistics software, or by referring to literature or Web sites provided by your cartridge manufacturer. You may also visit the Leupold Web site at www.leupold.com for more assistance in selecting your group. If you have your ballistics performance data, select your performance group from the table on the next page based on the bullet path at 500 yards (457 meters). Be sure not to confuse bullet path with bullet drop. Bullet path will be related back to your sight-in range whereas bullet drop relates only to the total drop of the bullet, regardless of sight-in range.

TBR PERFORMANCE GROUP SELECTION TABLE: FOR BEST FIT UP TO 500 YARDS (457 METERS)		
TBR Group	500 Yards (457 Meters) Bullet Path	Sight-in Range
A	Less than -20 inches (-51 cm) of path height	300 Yards/274 Meters
B	-20 to -25 inches (-51 to -64 cm)	300 Yards/274 Meters
C	-35 to -41 inches* (-89 to -104 cm)	200 Yards/183 Meters
AB	-41 to -42.5 inches (-104 to -108 cm)	200 Yards/183 Meters
AC	-42.5 to -49.5 inches (-108 to -126 cm)	200 Yards/183 Meters
BC	-49.5 to -52 inches (-126 to -132 cm)	200 Yards/183 Meters
ABC	More than -52 inches (-132 cm) of path height [if the path height is more than 64 inches (163 cm), performance will be reduced by the difference]	200 Yards/183 Meters

* If your bullet path height is less than -20 inches (-51 cm) at 500 yards (457 meters) with a 200 yard (183 meter) sight-in, consider sighting-in at 300 yards (274 meters) and selecting group A or B. Alternately, you can use group C with a 200 yard (183 meter) sight-in, but the TBR will be less accurate at extreme long ranges.

Long Range Group Selection — If you intend to shoot varmints or targets at ranges beyond 500 yards (457 meters), selecting your group based on 800 yard (732 meter) performance will provide a better performance match throughout this working range. Select your group for extreme long range shooting from the table below.

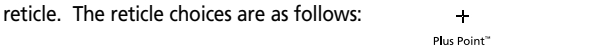
TBR PERFORMANCE GROUP SELECTION TABLE: FOR BEST FIT UP TO 800 YARDS (732 METERS)		
TBR Group	800 Yards (732 Meters) Bullet Path	Sight-in Range
A	Less than -96 inches (-244 cm) of path height	300 Yards/274 Meters
B	-96 to -120 inches (-244 to -305 cm)	300 Yards/274 Meters
C	-139 to -164 inches** (-353 to -417 cm)	200 Yards/183 Meters
AB	-164 to -189 inches (-417 to -480 cm)	200 Yards/183 Meters
AC	-189 to -212 inches (-480 to -538 cm)	200 Yards/183 Meters
BC	-212 to -236 inches (-538 to -599 cm)	200 Yards/183 Meters
ABC	More than -236 inches (-599 cm) of path height [if the path height is more than 250 inches (635 cm), performance will be reduced by the difference]	200 Yards/183 Meters

** If your bullet path height is less than -139 inches (-353 cm) at 800 yards (732 meters) with a 200 yard (183 meter) sight-in, consider sighting-in at 300 yards (274 meters) and selecting group A or B. Alternately, you can use group C with a 200 yard (183 meter) sight-in, but the TBR will be less accurate at extreme long ranges.

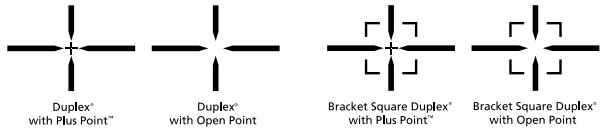
REMEMBER: *Knowing your theoretical bullet path at long ranges does not provide a license to take shots beyond ranges at which you have practiced, particularly at game animals or where stray shots could hit unintended targets. It is your responsibility to have intimate familiarity with the performance of your firearm and take full responsibility for the projectile. The RX digital laser rangefinder may serve best as a tool for learning performance during practice at a secure range so you are ready for that critical shot.*

FUNCTION 16: MATCH 13™ RETICLE SYSTEM™

By selecting this mode, any one of 13 preloaded reticles (RX-IV Boone and Crockett™ models are limited to 3 reticles: Crosshair, Plus Point™, and Boone and Crockett) can be chosen as the primary aiming point for the RX digital laser rangefinder. To select a reticle, press MODE repeatedly until you approach the end of the Quick Set Rotary Menu (just after ballistics group C). Each successive time MODE is pressed will change the reticle style. Press SET to select a reticle. The reticle choices are as follows:

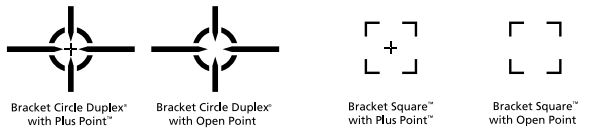


Plus Point™: Ideal for varmints and other small targets. Small open center avoids coverage of very small or distant targets.


Duplex® with Plus Point™
Duplex® with Open Point
Bracket Square Duplex® with Plus Point™
Bracket Square Duplex® with Open Point

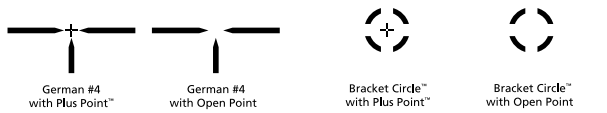
Duplex®: Familiar reticle to shooters from riflescopes; draws eye to the center, easy to see, does not cover the target in the center where aiming is most critical.

Bracket Square Duplex®: Brackets an elk torso at 40 yards or a deer torso at 30 yards. Provides easy aiming on 3D targets and game for archers. Duplex provides bold contrast for low light.


Bracket Circle Duplex® with Plus Point™
Bracket Circle Duplex® with Open Point
Bracket Square™ with Plus Point™
Bracket Square™ with Open Point

Bracket Circle Duplex®: Provides bolder aiming for low-light/low-contrast situations. Brackets small game and 3D targets at 40 yards. Brackets a deer at 50 yards. Excellent for muzzleloaders.

Bracket Square™: Brackets an elk torso at 40 yards or a deer torso at 30 yards. Provides easy aiming on 3D targets and game for archers.



German #4: A favorite of European hunters. Provides bold aiming and is free from obstructions in the upper half of the field of view.

Bracket Circle™: Brackets small game 3D targets and game at 40 yards. Brackets a deer at 50 yards. Great choice for muzzleloaders. Open compass points draw the eye to the center.

FUNCTION 17: CALIBRATING THE COMPASS

The RX models that feature the Compass Mode let you instantly determine the direction to, as well as the distance from, an object or animal. Before using the compass for the first time, or for the first time in a new geographic location, you must first calibrate it.

1. Press MODE and progress through the entire Quick Set Rotary Menu to the reticle options.
2. Select your reticle setting, press the SET button once, and "CAL" will display and flash.
3. Press the SET button again and "CAL" will stop flashing and remain steadily displayed.
4. Smoothly rotate the RX a full 360 degrees within 24 seconds.
5. Press the SET button after the calibration is completed, or the calibration will be completed automatically after 24 seconds.
6. The calibration of the compass is now complete.

See Function 12 on page 4 for instructions on setting declination angle.

OTHER USEFUL FEATURES

Clear Field™ Function: This allows you to clear the icons for modes, units, etc., without deactivating the modes.

To toggle Clear Field on and off – hold the POWER button, then press the MODE button.

Display Illumination: Hold down the SET button to provide sharp display contrast for optimum readability in low-light situations.

RX-III, RX-IV, and RX-IV Boone and Crockett only – hold down the SET button.

Cleaning/Maintenance

Blow away dust or debris on lenses, or use a soft lens brush (such as the one found on the Leupold LensPen). To remove fingerprints, water spots or tougher dirt, use a soft cotton cloth or the cleaning end of the Leupold LensPen. A lens tissue with lens cleaning fluid may be used for more stubborn dirt. Always apply cleaning fluid to the cleaning cloth, never directly to the lens.

To insert a new battery, remove battery cover (shown in diagram on page 2) and remove exhausted battery. Insert new CR-2 battery, negative terminal first, into the battery compartment. Close battery cover.

To focus the digital laser rangefinder, turn the eyepiece left or right (you will feel and hear the clicking of the diopter, indicating a change to the focus has been made) until crisp display focus is achieved.

RX-I and RX-II models are weatherproof. RX-III, RX-IV, and RX-IV Boone and Crockett models are waterproof.

All models include a lanyard and are equipped with a lanyard attachment for added security in the field. All models are also supplied with a small instructional supplement in the inside pocket of the included case.

Helpful Hints for Using the Leupold RX Digital Laser Rangefinders

HOW DO I ACTIVATE TRUE BALLISTIC RANGE (TBR)?

Only available in RX-II, RX-III, RX-IV, and RX-IV Boone and Crockett™. See Function 13 on page 4. Be sure to select the proper group for bows on page 5 or rifles on pages 5-6.

HOW DO I ACTIVATE SIMPLE LINE OF SIGHT (LOS) RANGE?

Always on for RX-I model.

To activate on RX-II, RX-III, RX-IV, and RX-IV Boone and Crockett models: follow the Quick Set Rotary Menu procedure (see page 2).

THE COMPASS IN MY RX-IV GIVES INCORRECT READINGS WHEN AIMING UPHILL OR DOWNHILL.

The compass in the RX-IV is tilt compensated up to a 30° uphill or downhill line of sight. Unlike any other rangefinding product on the market, the computer processor in the rangefinder takes the compass reading and the inclinometer reading to create a correct compass bearing calculation. Viewing angles in excess of 30° will produce incorrect compass readings.

WHEN I SHOOT BASED ON THE TRUE BALLISTIC RANGE READOUT PROVIDED BY THE RANGEFINDER, THE PROJECTILE IS NOT HITTING THE TARGET.

The first step in correctly using TBR is to Practice, Practice, Practice. Anytime you handle a firearm or bow, you are ultimately responsible for your projectile. Be certain that if you're shooting a bow that "BOW" is turned on.

Be certain that if you're shooting a rifle that "TBR" is turned on.

Be certain you selected the correct ballistics groups (see pages 5-6).

It is imperative that a rifle be sighted-in at the recommended range.

For rifles, ballistics performance of firearms and ammunition may vary from manufacturers published information.

RANGEFINDER DOES NOT PROVIDE RANGE OR RANGE IS OBVIOUSLY INCORRECT.

Make sure you don't have a mode turned on that prevents the rangefinder from ranging your target. For example, if Long Range Mode is on and ">150" appears at the top of the display, you will not be able to range something at 50 yards.

The target may also be absorbing too much light (as in extremely dark-colored animals). Try ranging an object next to the target.

Try turning on a mode that improves performance in your conditions such as Rain Mode when it is raining (see Function 2 on page 2).

On RX-I and RX-II models, be certain you are not in the Quick Set Rotary Menu function. The unit will "time out," and go into ranging mode from any mode setting in the Quick Set Rotary Menu after approximately 20 seconds. Alternately, you may hold down MODE to get out right away. The unit is ready to range when dashed lines appear in the upper display.

HOW DO I ACTIVATE THE INCLINOMETER READOUT?

RX-II, RX-III, RX-IV, and RX-IV Boone and Crockett: TBR or BOW must be activated for angle of inclination to display (see Function 14 on page 5).

NOTE: *The inclinometer is not available on the RX-I model.*

Warranty/Repair

Your Leupold RX Series digital laser rangefinder is warranted by the Leupold Green Ring™ Electronics Warranty, and is protected from defects in materials and workmanship for TWO YEARS (RX-III, RX-IV, and RX-IV Boone and Crockett models) or ONE YEAR (RX-I and RX-II models) from the date of purchase. In event of a need for service or repair, please contact Leupold Product Service at:

BY PARCEL SERVICE:
Leupold Product Service
14400 NW Greenbrier Parkway
Beaverton, OR 97006-5791 USA

BY POSTAL SERVICE:
Leupold Product Service
P.O. Box 688
Beaverton, OR 97075-0688 USA

For product questions, consult the Leupold Web site at:
www.leupold.com, or call **(503) 526-1400** or **(800) LEUPOLD (538-7653)**.

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